



For Accurate Music and
Voice Reproduction from
In-Ceiling Locations



5-1/4" IN-CEILING LOUDSPEAKER

LSC-5/5R

LSC-5/5R

5-1/4" IN-CEILING SPEAKER

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FEATURES

- 5-1/4" polypropylene woofer with urethane surround
- 3/4" liquid cooled polycarbonate dome tweeter
- Moisture resistant
- Rust proof aluminum grilles

Installation friendly design:

- Suitable for painting
- Connection terminals accepts up to 12 gauge speaker wire
- Quick mounting system for new construction or retrofit installations
- Includes hole template and paint mask
- Ceiling Bracket for New Construction Installations: NCB-5 (sold separately)
- LSC-5R appearance resembles typical recessed light fixtures

PRODUCT OVERVIEW

The illustration shows how a typical JobSite LSC loudspeaker mounts into a ceiling.

Ceiling Bracket serves as a "hole saver" when drywall has not been applied. Cannot use when installing loudspeaker in existing ceilings.

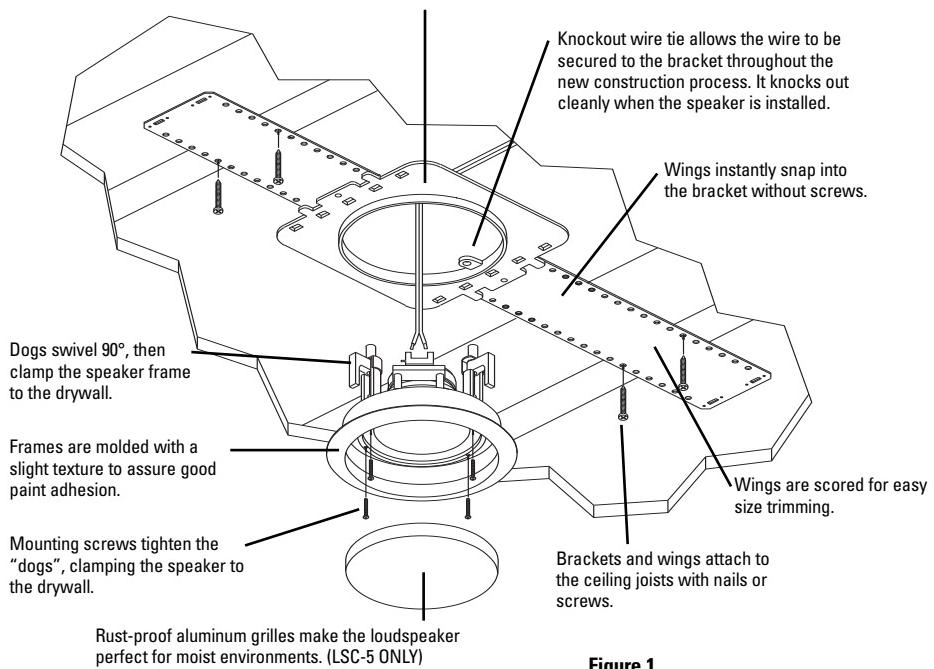


Figure 1

PACKAGE CONTENTS

- Speakers x 2
- Speaker grilles x 2
- Speaker cutout template / paint mask x 1

PREPARING FOR INSTALLATION

If you are installing the LSC-5/LSC-5R into an existing ceiling, take time to consider any possible obstructions which may be hidden inside the ceiling: ceiling joists, electrical wiring, telephone wiring, plumbing, AC or heating conduit and ductwork.

Determine the best mounting locations based on the room layout. Before cutting any holes, make sure the area behind both speakers is clear for installation. Speakers provide the best coverage, when centered in the room. Line up the speakers with a permanently mounted ceiling fixture such as can lights, or a light fixture.

If you are installing the speakers into a new ceiling follow the above recommendations and install a set of JobSite NCB-5 Ceiling Brackets, prior to drywall installation.

Run speaker wire from each location to the amplifier location. Label the speakers wires at the amplifier end, so you know which wire goes to each speaker.

TOOLS REQUIRED

- Stud Locator (for existing construction)
- Drywall saw (for existing construction)
- Pencil (for existing construction)
- Cordless screwdriver with No2 Philips bit
- Wire stripper
- Wire labels

INSTALLATION

Installation Existing Construction:

1. Use a stud locator to identify the location of the ceiling joists on each side of the proposed loudspeaker mounting location.
2. Mark ceiling joists' edges, using masking tape.
3. Repeat this process for the other loudspeaker locations.
4. You may have to adjust the loudspeaker mounting locations based on how the ceiling joists line up with the proposed speaker mounting locations.
5. Check for clearance using the following method:
 - a. Drill a 1/4" pilot hole in the center of the intended speaker location.
 - b. Cut a foot-long piece of coat hanger.
 - c. Bend the wire, creating a right angle, leaving 4-1/4" at one end.
 - d. Poke the "L-shaped" wire into the pilot hole and turn it in a complete circle, checking for obstructions.
 - e. Push it up into the ceiling cavity to make sure you have approximately 4" of depth.
 - f. If the coat hanger's movement is obstructed by anything, fill the hole(s) with spackle and try another location.
6. Locate the hole template and remove the inside portion of it. The inside portion can be used as a paint mask, if you are painting the frame of the loudspeaker.
7. Use a pencil and hole template to trace the hole outline in the desired location on the ceiling.
8. Use a drywall saw to cut along the penciled line.

9. Strip 1/4" of insulation from the end of each wire coming from the amplifier.
 10. Tightly twist the end of each wire until no frayed ends remain.
 11. Attach the speaker wires to the speaker terminal connectors. Connect the negative output from the amplifier to the black terminal and the positive output to the red terminal.
 12. There are four clamps "dogs" which hold each speaker in place. Rotate all the dogs inward.
 13. Insert the loudspeaker into the cutout in the ceiling.
 14. The dogs are tightened via four front-baffle screws. Tighten the dogs by turning the screws clockwise, while pressing the loudspeaker against the ceiling. **NOTE: DO NOT OVER TIGHTEN THESE SCREWS.** Over-tightening the screws may make the grille difficult to install.
 15. Install the grille into the speaker.
 16. Repeat this procedure for the next speaker.
- Installation New Construction:**
- Install the proper ceiling bracket for this loudspeaker (NCB-5) using the instructions supplied with the bracket. After the hole is cut in the drywall per the bracket instructions, perform the following steps:
1. Strip 1/4" of insulation from the end of each wire coming from the amplifier.
 2. Tightly twist the end of each wire until no frayed ends remain.
 3. Attach the speaker wires to the speaker terminal connectors. Connect the negative output from the amplifier to the black terminal and the positive output from the amplifier to the red terminal.
 4. There are four clamps "dogs" which hold each speaker in place. Rotate all the dogs inward.
 5. Insert the loudspeaker into the cutout in the ceiling.
 6. The dogs are tightened via four front-baffle screws. Tighten the dogs by turning the screws clockwise, while pressing the loudspeaker against the ceiling. **NOTE: DO NOT OVER TIGHTEN THESE SCREWS.** Over-tightening the screws may make the grille difficult to install.
 7. Install the grille into the speaker.
 8. Repeat this procedure for the next speaker.

Removing the Grilles:

To remove the grille from the LSC-5, obtain a small paper clip (size #1, common) and bend the last quarter inch of it into an "L" shape. Holding the paper clip with a pair of pliers, insert the end with the "L" into a hole near the edge of the grille. Remove the grille by pulling the paper clip towards you.

For the LSC-5R, press your fingers against the inside of the grille's white collar. While pressing against the collar, pull it towards you.

Painting the Speakers:

The speakers must be masked prior to painting them. The inside circular portion of the hole template can be used as a paint mask. Remove the outside portion of the template by gently pulling along the perforation. Affix the mask to the front of the speaker using a piece of tape. Fold the tape onto itself to form a double-sided loop. Affix the tape to the tweeter and place the mask onto the speaker.

Painting the Grilles:

The LSC-5/5R grilles should be painted before they are installed on the speakers. The best results will be obtained by using a spray gun or airless sprayer. Thin the paint, and then apply several light coats. This technique helps prevent clogging of grille holes. Paint both sides of the grille to cover all the white paint.

OPERATION

Listening at Higher Volumes:

It requires more power to achieve a reasonable volume of sound in a large room than it does in a small room. It is possible to turn the volume so high that the amplifier runs out of power. This creates "clipping" distortion.

Clipping distortion makes treble sound very harsh and unmusical. When you hear harsh sounding treble from any good speaker, turn the volume down immediately! You are much less likely to damage a speaker with a large amplifier because it will be very loud indeed before it produces any clipping distortion.

SPECIFICATIONS

LSC-5/5R

Power handling:

3 – 50 watts

Frequency response:

80Hz-20kHz +/- 4dB

Impedance:

8 ohms

Dimensions:

7-3/4" outside frame diameter

6-1/2" diameter hole cutout

2-3/4" deep when installed in 1/2" drywall

Ceiling Bracket for New Construction:

JobSite NCB-5 (sold separately)

Warranty: 5 year limited

LIMITED WARRANTY

JobSite Systems ("JOBSITE"), a Niles Audio Corporation company, warrants its passive products (those not requiring AC or battery power) to the original purchaser to be free of manufacturing defects in material and workmanship for a period of ten years from date of purchase.

JOBSITE warrants its passive loudspeaker products (those not requiring AC or battery power) to the original purchaser to be free of manufacturing defects in material and workmanship for a period of five years from date of purchase.

JOBSITE warrants its indoor/outdoor loudspeaker products to the original purchaser to be free of manufacturing defects in material and workmanship for a period of two years from date of purchase.

JOBSITE warrants its all weather rock loudspeaker products to the original purchaser to be free of manufacturing defects in material and workmanship for a period of five years from date of purchase.

JOBSITE warrants its active products (those requiring AC or battery power) to the original purchaser to be free of manufacturing defects in material and workmanship for a period of two years from date of purchase.

This Warranty is subject to the following additional conditions and limitations. The Warranty is void and inapplicable if JOBSITE deems that the product has been used or handled other than in accordance with the instructions provided by the manufacturer, including, but not limited to, damage caused by accident, mishandling, improper installation, abuse, negligence, or normal wear and tear, or any defect caused by repair to the product other than by JOBSITE or an authorized JOBSITE wholesale distributor.

To obtain warranty service, you must write to JOBSITE: Include your name, address, telephone number, model number and serial number of your unit, and a brief description of the problem.

A factory Return Authorization Number will be sent to you. **DO NOT RETURN ANY UNIT WITHOUT FIRST RECEIVING WRITTEN AUTHORIZATION AND SHIPPING INSTRUCTIONS FROM JOBSITE.**

If the above conditions are met, the purchaser's sole remedy shall be to return the product to JOBSITE, in which case JOBSITE will repair or replace, at its sole option, the defective product without charge for parts or labor. JOBSITE will return the unit repaired or replaced under warranty by shipping it by its usual shipping method from the factory (only) at its expense within the United States of America. **THERE ARE NO OTHER WARRANTIES, INCLUDING, WITHOUT LIMITATION, EITHER EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO THE PRODUCT.**

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Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

For the name of the nearest authorized JOBSITE wholesale distributor, contact:

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